

Appendix

Selected Department of Public Instruction (DPI) objectives for Science, Health and Social Studies

Science Objectives:

- A. Problem Solving
 - 1. Ask questions
 - 2. Collect data
 - 3. Analyze data
- B. Science Knowledge
 - 1. Diversity
 - 2. Change
 - 3. Organization
 - 4. Continuity
 - 5. Interaction
 - 6. Limitation
- C. Nature of Science
 - 1. Evolution of science
 - 2. Milestones
 - 3. Variety of methods
 - 4. Assumptions
- D. Science, Technology and Society
 - 1. Societal needs
 - 2. Personal needs
 - 3. Attitudes and beliefs
 - 4. Economics
 - 5. Politics

Health Education (Environmental Health) Objectives:

- A. Life Goals—the individual:
 - 1. Obeys laws and regulations essential for the survival of humanity
 - 2. Understands that all people have a responsibility to help conserve resources

- 3. Avoids actions that contribute to the deterioration of the environment
 - 4. Utilizes agencies responsible for environmental protection
- B. 6th Grade—students will be able to:
 - 1. Describe ways in which improving the environment can enhance physical, mental, and social health
 - 2. List the negative and positive environmental changes that may come about by the year 2000
 - 3. Explain why sanitation is important to the nation's health
 - 4. Explain the effects of environmental practices on well-being
- C. 7-9th grade—students will be able to:
 - 1. Describe the impact technology has had on the environment and human health
 - 2. Identify local, state, and federal agencies that promote or affect environmental health
 - 3. Discuss the individual's responsibility for preserving a healthy environment
 - 4. Compare the origins and impact on well-being of various types of air, water, and land pollution
 - 5. List potential environmental carcinogens
 - 6. Know that over the past 100 years environmental control measures have greatly reduced human illness

Social Studies Objectives:

- A. 6th grade—students will be able to:
 - 1. Recognize that land forms, climate, and the availability of natural resources exert a powerful influence on the lifestyle, technology, and values of individuals and cultures
- B. 7th grade—students will be able to:
 - 1. Identify common problems, needs, and behaviors of people from similar and different environments

- 2. Explain the dependency of present and future generations upon the ecosystem
 - 3. Engage in reasoned and responsive action in relation to humanity, the ecosystem, culture, and the social order

C. 8th grade—students will be able to:

- 1. Develop and examine their own values and attitudes and those of others with respect to a commitment to democratic beliefs, personal responsibility and human freedom

D. 8th-9th grade—students will be able to:

- 1. Explain the principles of rule of law, legal limits of freedom, and majority rule with minority rights
- 2. Analyze a local community issue in order to identify the different value positions and make a personal choice on the issue
- 3. Demonstrate effective decision-making skills and apply them to important social problems

Other subjects to which groundwater activities may apply:

Math, Home Economics, Environmental Science, Agriculture Technology, English

